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NEWS	3	Aug	2	New INPADOC File Now Available on STN
NEWS	4	Aug	9	Expanded CPlus Coverage of US, Japanese and WIPO Patents
NEWS	5	Aug	23	Left Truncation Added to Several STN Files
NEWS	6	Aug	30	The International Patent Classification in English and German available on STN
NEWS	7	Aug	30	IFIRXA File has changed to IFICLS
NEWS	8	Aug	30	IMSworld Pharmaceutical Company Profiles (IMSPROFILES) from IMS HEALTH now on STN
NEWS	9	Sep	1	IFIPAT Pricing Changes
NEWS	10	Sep	7	ESBIOBASE - Elsevier Biobase now on STN
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=> file caplus

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FILE LAST UPDATED: 18 Sep 1999 (19990918/ED)

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=> s (plantarin or sakacin)(15a)promoter

1 PLANTARIN  
30 SAKACIN  
91905 PROMOTER  
32528 PROMOTERS  
104232 PROMOTER

(PROMOTER OR PROMOTERS)

L1 4 (PLANTARIN OR SAKACIN)(15A)PROMOTER

=> d 1-4

L1 ANSWER 1 OF 4 CAPLUS COPYRIGHT 1999 ACS

AN 1998:708288 CAPLUS

DN 130:91033

TI A system for heterologous expression of bacteriocins in *Lactobacillus sake*

AU Axelsson, Lars; Katla, Tone; Bjornslett, Merete; Eijsink, Vincent G. H.; Holck, Askild

CS MATFORSK, Norwegian Food Research Institute, Aas, N-1430, Norway

SO FEMS Microbiol. Lett. (1998), 168(1), 137-143

CODEN: FMLED7; ISSN: 0378-1097

PB Elsevier Science B.V.

DT Journal

LA English

L1 ANSWER 2 OF 4 CAPLUS COPYRIGHT 1999 ACS

AN 1997:738099 CAPLUS

DN 128:45646

TI Pheromone-induced production of antimicrobial peptides in *Lactobacillus*

AU Brurberg, May B.; Nes, Ingolf F.; Eijsink, Vincent G. H.

CS Biotechnological Sciences, Laboratory of Microbial Gene Technology, Agricultural University of Norway, Aas, 1432, Norway

SO Mol. Microbiol. (1997), 26(2), 347-360

CODEN: MOMIEE; ISSN: 0950-382X

PB Blackwell Science Ltd.

DT Journal

LA English

L1 ANSWER 3 OF 4 CAPLUS COPYRIGHT 1999 ACS

AN 1997:403340 CAPIUS  
 DN 127:14135  
 TI A strongly regulatable promoter from the bacteriocin cluster of lactic acid bacteria and its use in expression systems  
 IN Eijsink, Vincent G. H.; Nes, Ingolf F.; Brurberg, May B.  
 PA Eijsink, Vincent G. H., Norway; Nes, Ingolf F.; Brurberg, May B.  
 SO PCT Int. Appl., 40 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9718316	A1	19970522	WO 1996-NO266	19961113
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9677121	A1	19970605	AU 1996-77121	19961113
	EP 861327	A1	19980902	EP 1996-940172	19961113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	NO 1995-4575		19951113		
	WO 1996-NO266		19961113		

L1 ANSWER 4 OF 4 CAPLUS COPYRIGHT 1999 ACS  
 AN 1994:429422 CAPLUS  
 DN 121:29422  
 TI Cloning and sequencing of sakP encoding sakacin P, the bacteriocin produced by Lactobacillus sake LTH 673  
 AU Tichaczek, Petra S.; Vogel, Rudi F.; Hammes, Walter P.  
 CS Inst. Lebensmitteltechnol., Univ. Hohenheim, Stuttgart, 70599, Germany  
 SO Microbiology (Reading, U. K.) (1994), 140(2), 361-7  
 CODEN: MROBEO; ISSN: 1350-0872  
 DT Journal  
 LA English

=> d ab

L1 ANSWER 1 OF 4 CAPLUS COPYRIGHT 1999 ACS  
 AB A system for efficient heterologous expression of class II bacteriocins is described that is based on introducing two plasmids in a bacteriocin-neg. Lactobacillus sake strain. The first plasmid (pSAK20) contains the genes necessary for transcriptional activation of the **Sakacin A promoter** as well as export and processing of bacteriocin precursors. The second plasmid (a pLPV111 deriv.) contains the structural and immunity genes for the bacteriocin of interest fused to the **sakacin A promoter**. Using this system, various bacteriocins were produced at levels equal to or higher than those obtained with the corresponding wild-type producer strains.

=> log h

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.54	-0.54

=> s agr and aureus and promoter

848 AGR

64 AGRS

869 AGR

(AGR OR AGRS)

32629 AUREUS

91905 PROMOTER

32528 PROMOTERS

104232 PROMOTER

(PROMOTER OR PROMOTERS)

L2 28 AGR AND AUREUS AND PROMOTER

=> s l2 and py<1996

12855080 PY<1996

L3 13 L2 AND PY<1996

=> d 1-13

L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 1999 ACS

AN 1995:825417 CAPLUS

DN 124:22817

TI The **agr** P2 operon: an autocatalytic sensory transduction system  
 in *Staphylococcus aureus*

AU Novick, R. P.; Projan, S. J.; Kornblum, J.; Ross, H. F.; Ji, G.;  
 Kreiswirth, B.; Vandenesch, F.; Moghazeh, S.

CS Public Health Research Inst. City of New York, New York, NY, 10016, USA

SO Mol. Gen. Genet. (1995), 248(4), 446-58

CODEN: MGGEAE; ISSN: 0026-8925

DT Journal

LA English

L3 ANSWER 2 OF 13 CAPLUS COPYRIGHT 1999 ACS

AN 1995:560680 CAPLUS

DN 123:162690

TI In vitro transcription of pathogenesis-related genes by purified RNA  
 polymerase from *Staphylococcus aureus*

AU Rao, Lin; Karls, Russell K.; Betley, Marsha J.  
 CS Dep. Bacteriol., Univ. Wisconsin-Madison, Madison, WI, 53706, USA  
 SO J. Bacteriol. (1995), 177(10), 2609-14  
 CODEN: JOBAAY; ISSN: 0021-9193  
 DT Journal  
 LA English

L3 ANSWER 3 OF 13 CAPLUS COPYRIGHT 1999 ACS  
 AN 1995:401101 CAPLUS  
 DN 122:283609  
 TI Characterization of a chromosomal locus (ETexp) which regulates the expression of exfoliative toxin genes in *Staphylococcus aureus*  
 AU Hata, Toshiaki  
 CS Dep. Obstet. Gynecol., Jikei Univ. Sch. Med., Tokyo, 105, Japan  
 SO Tokyo Jikeikai Ika Daigaku Zasshi (1994), 109(6), 1529-41  
 CODEN: TJIDAH; ISSN: 0375-9172  
 DT Journal  
 LA Japanese

L3 ANSWER 4 OF 13 CAPLUS COPYRIGHT 1999 ACS  
 AN 1994:155256 CAPLUS  
 DN 120:155256  
 TI The gene encoding plantaricin A, a bacteriocin from *Lactobacillus plantarum* C11, is located on the same transcription unit as an *agr*-like regulatory system  
 AU Diep, Dzung Bao; Havarstein, Leiv Sigve; Nissen-Meyer, Jon; Nes, Ingolf F.  
 CS Lab. Microbial Gene Technol., Agric. Univ., Aas, N-1432, Norway  
 SO Appl. Environ. Microbiol. (1994), 60(1), 160-6  
 CODEN: AEMIDF; ISSN: 0099-2240  
 DT Journal  
 LA English

L3 ANSWER 5 OF 13 CAPLUS COPYRIGHT 1999 ACS  
 AN 1994:70718 CAPLUS  
 DN 120:70718  
 TI Synthesis of staphylococcal virulence factors is controlled by a regulatory RNA molecule  
 AU Novick, Richard P.; Ross, Hope F.; Projan, Steven J.; Kornblum, John; Kreiswirth, Barry; Moghazeh, Soraya  
 CS Dep. Plasmid Biol., Public Health Res. Inst., New York, NY, 10016, USA  
 SO EMBO J. (1993), 12(10), 3967-75  
 CODEN: EMJODG; ISSN: 0261-4189  
 DT Journal  
 LA English

L3 ANSWER 6 OF 13 CAPLUS COPYRIGHT 1999 ACS  
 AN 1992:484540 CAPLUS  
 DN 117:84540  
 TI Regulation of the protein A-encoding gene in *Staphylococcus aureus*  
 AU Patel, Arvind H.; Kornblum, John; Kreiswirth, Barry; Novick, Richard; Foster, Timothy J.  
 CS Microbiol. Dep., Trinity Coll., Dublin, Ire.  
 SO Gene (1992), 114(1), 25-34  
 CODEN: GENED6; ISSN: 0378-1119  
 DT Journal  
 LA English

L3 ANSWER 7 OF 13 CAPLUS COPYRIGHT 1999 ACS  
 AN 1992:229534 CAPLUS  
 DN 116:229534  
 TI Osmotic and growth-phase dependent regulation of the *eta* gene of *Staphylococcus aureus*: a role for DNA supercoiling  
 AU Sheehan, Brian J.; Foster, Timothy J.; Dorman, Charles J.; Park, Simon; Stewart, Gordon S. A. B.

CS Moyne Inst., Trinity Coll., Dublin, Ire.  
SO Mol. Gen. Genet. (1992), 232(1), 49-57  
CODEN: MGGEAE; ISSN: 0026-8925  
DT Journal  
LA English

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AN 1992:1440 CAPLUS  
DN 116:1440  
TI A temporal signal, independent of **agr**, is required for hla but not spa transcription in *Staphylococcus aureus*  
AU Vandenesch, Francois; Kornblum, John; Novick, Richard P.  
CS Dep. Plasmid Biol., Public Health Res. Inst., New York, NY, 10016, USA  
SO J. Bacteriol. (1991), 173(20), 6313-20  
CODEN: JOBAA; ISSN: 0021-9193  
DT Journal  
LA English

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AN 1991:222309 CAPLUS  
DN 114:222309  
TI **AGR** regulated alpha toxin promoter of *Staphylococcus aureus*  
AU Sullivan, D.; Kehoe, M.  
CS Med. Sch., Univ. Newcastle upon Tyne, Newcastle upon Tyne, NE2 4HH, UK  
SO Zentralbl. Bakteriол., Suppl. (1990), 19(Bact. Protein Toxins), 349-50  
CODEN: ZBASE2  
DT Journal  
LA English

L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AN 1991:18362 CAPLUS  
DN 114:18362  
TI Cryptic .alpha.-toxin gene in toxic shock syndrome and septicemia strains of *Staphylococcus aureus*  
AU O'Reilly, M.; Kreiswirth, B.; Foster, T. J.  
CS Moyne Inst., Trinity Coll., Dublin, Ire.  
SO Mol. Microbiol. (1990), 4(11), 1947-55  
CODEN: MOMIEE; ISSN: 0950-382X  
DT Journal  
LA English

L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AN 1990:435552 CAPLUS  
DN 113:35552  
TI The role of the .delta.-lysin gene (hld) in the regulation of virulence genes by the accessory gene regulator (**agr**) in *Staphylococcus aureus*  
AU Janzon, Lars; Arvidson, Staffan  
CS Dep. Bacteriol., Karolinska Inst., Stockholm, S-104 01, Swed.  
SO EMBO J. (1990), 9(5), 1391-9  
CODEN: EMJODG; ISSN: 0261-4189  
DT Journal  
LA English

L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AN 1988:543470 CAPLUS  
DN 109:143470  
TI DNA sequence analysis of staphylococcal epidermolytic toxins  
AU O'Toole, P. W.; Foster, T. J.  
CS Moyne Inst., Trinity Coll., Dublin, Ire.  
SO Zentralbl. Bakteriол., Mikrobiol. Hyg., Abt. 1, Suppl. (1988), 17(Bact. Protein Toxins), 245-6  
CODEN: ZBMSDR; ISSN: 0172-5629

DT Journal  
LA English

L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AN 1987:44802 CAPLUS  
DN 106:44802

TI Molecular cloning and expression of the epidermolytic toxin A gene of  
Staphylococcus aureus

AU O'Toole, Paul W.; Foster, Timothy J.  
CS Moyne Inst., Trinity Coll., Dublin, Ire.  
SO Microb. Pathog. (1986), 1(6), 583-94  
CODEN: MIPAEV; ISSN: 0882-4010

DT Journal  
LA English

=> d 1,8,9 ab

L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 1999 ACS  
AB The synthesis of virulence factors and other exoproteins in  
Staphylococcus

aureus is controlled by the global regulator, **agr**.

Expression of secreted proteins is up-regulated in the postexponential growth phase, whereas expression of surface proteins is down-regulated by **agr**. The **agr** locus consists of two divergent operons, transcribed from neighboring but non-overlapping promoters, P2 and P3. The P2 operon sequence, reported here, contains 4 open reading frames, *agrA*, C, D, and B, of which A and C appear to encode proteins of

a classical 2-component signal transduction pathway. The P3 operon specifies a 0.5-kb transcript, RNA III, which is the actual effector of the **agr** response, and, incidentally, encodes the **agr**-regulated peptide  $\delta$ -hemolysin. Transcriptional fusions have shown that both P2 and P3 are **agr** sensitive (function in an **agr**<sup>+</sup> but not in an **agr**<sup>-</sup> background) and deletion anal. has shown that all 4 of the P2 ORFs are involved; *agrA* and *agrC* seem to

be absolutely required for the transcriptional activation of the **agr** locus, whereas *agrB* and *agrD* seem to be partially required. Since transcription of P2 requires P2 operon products, the P2 operon is autocatalytic, and is thus admirably suited to the need for rapid prodn. of exoproteins at a time when overall growth is coming to a halt.

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 1999 ACS

AB S. aureus exoprotein expression is controlled by a global regulon known as **agr**. This system activates transcription of some target genes and represses transcription of others. Target genes expressed postexponentially such as  $\alpha$ -hemolysin (*hla*) are activated by **agr**; target genes expressed during exponential phase such as protein A (*spa*) are repressed by **agr**. A unique feature of the **agr** system is that this transcriptional regulation is mediated by a 517-nucleotide transcript, RNAIII. While it is clear that **agr** differentially regulates the expression of exponential and postexponential

exoproteins, the precise role of **agr** in the temporal control of these events has not yet been explored. In this report, the effects are examd. of expressing RNAIII, the **agr** regulator, under the control of the inducible  $\beta$ -lactamase (*bla*) promoter at different times in the growth cycle. Previous results are confirmed showing that **agr** is required for postexponential-phase expression of *hla* and that a sep. postexponential-phase signal

independent of **agr** function is also needed for activation of *hla* transcription. In an **agr** mutant, transcription of *spa* occurs

throughout the growth cycle, is inhibited immediately upon induction of RNAIII, and is t indifferent to the postexponential signal required  
fro hla activation.

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 1999 ACS

AB In *S. aureus*, a system termed the Accessory Gene Regulator (AGR), acts in trans to coordinately control transcription of a variety of unlinked virulence genes. Although the mechanism is not understood, it is known that at the end of exponential phase in batch cultures AGR represses expression of certain secreted proteins (e.g. Protein A) and acts as a pos. regulator to turn on expression of others (e.g. alpha-toxin). Preliminary studies aimed at identifying the target for AGR regulation on an alpha-toxin gene (hla), cloned in the *Escherichia coli*-*S. aureus* shuttle plasmid pDU1212, are summarized.

=> log h

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FULL ESTIMATED COST	31.92	32.07
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CA SUBSCRIBER PRICE	-2.14	-2.14

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